

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (Currently Amended): A valve comprising a body having a valve seat formed therein, a bonnet, and a diaphragm abutting against and moving away from said valve seat, said body and said bonnet clamping and holding a peripheral edge of said diaphragm so as to seal the fluid inside said body,

said valve characterized in that said valve further comprises an elastic member, said body is formed with an annular groove, said groove extending around said valve seat and defined by an inner side surface, an outer side surface and a bottom surface, said diaphragm is provided at the peripheral edge thereof with an annular engagement part, which is formed to be bent down from the peripheral edge thereof and have an approximate L-shape in cross-section so as to extend along the inner side surface and bottom surface of said annular groove, and said annular engagement part is fitted into said annular groove and pressed against the inner side surface and bottom surface of said annular groove in a tight state by said elastic member disposed in said annular groove and between said bonnet and said annular engagement part of said diaphragm.

Claim 2 (Previously Presented): The valve according to claim 1, wherein said annular groove has an inner side surface inclined downward toward the outside and said elastic member has an inner circumference inclined corresponding to said inclined surface of said annular groove.

Claim 3 (Previously Presented): The valve according to claim 1, wherein said elastic member is an O-ring.

Claim 4 (Previously Presented): The valve according to claim 1, wherein an annular projection abutting against the surface of the diaphragm is provided at the bottom surface of the annular groove.

Claim 5 (Previously Presented): The valve according to claim 1, wherein an annular projection abutting against the surface of said diaphragm is provided at the part of the surface of said body clamping said diaphragm with said bonnet.